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PISTON AND CYLINDER OIL SQUIRTER RAIL AND SYSTEM

ABSTRACT OF THE DISCLOSURE

The present invention provides an oil squirter system for lubricating and cooling engine pistons and cylinders during various engine operating conditions. The oil squirter system includes a generally tubular oil supply manifold having an inlet connected to a pressurized engine oil source and at least one outlet connected to at least one oil supply rail. The oil supply rail includes a longitudinal manifold tube with integral oil squirter nozzles and attachment brackets. An oil flow control valve placed before the oil supply manifold controls oil flow to the oil rails and nozzles. The oil flow control valve responds to engine requirements and performance objectives to maintain adequate oil flow through the oil squirter system to the pistons and cylinders bores as needed to maintain optimal engine operation, preferably during startup and at higher engine speed operation.